

1 3. The continuously variable transmission as claimed
2 in claim 2, wherein the at least one of the rolling
3 contact portions comprises a traction surface on the
4 inner race of the power roller which is in contact with
5 the input and output disks.

1 4. The continuously variable transmission as claimed
2 in claim 2, wherein the at least one of the rolling
3 contact portions comprises a traction surface on each
4 of the input and output disks which is in contact with
5 the inner race of the power roller.

1 5. The continuously variable transmission as claimed
2 in claim 2, wherein the at least one of the rolling
3 contact portions comprises a bearing surface on each of
4 the inner and outer races which is in contact with the
5 balls.

1 6. A method for producing a rolling element for a
2 continuously variable transmission, the rolling element
3 including a plurality of rolling members having rolling
4 contact portions coming into rolling contact with each
5 other via lubricating oil, at least one of the rolling
6 contact portions including an outer surface layer, the
7 method comprising:

8 subjecting a workpiece to either one of
9 carburizing-quenching and carbonitriding-quenching;
10 subjecting an outer surface of the workpiece to
11 shot peening; and
12 subjecting the outer surface of the workpiece to
13 finish grinding so as to provide the outer surface
14 layer having a surface microhardness of not less than
15 Hv 750, a surface residual compressive stress of not

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1 14. The method as claimed in claim 13, wherein the
2 residual austenite content in the outer surface of the
3 workpiece is not less than 20% before the shot peening.

1 15. The method as claimed in claim 14, wherein the
2 residual austenite content is not less than 30%.

1 16. The method as claimed in claim 10, wherein the
2 shot peening is conducted using shots having an average
3 particle diameter of not more than 0.1 mm.

1 17. The method as claimed in claim 10, wherein the
2 outer surface of the workpiece has a hardness of not
3 less than Hv 720 before the shot peening.

1 18. The method as claimed in claim 17, wherein the
2 hardness is not more than Hv 760.

1 19. The method as claimed in claim 18, wherein the
2 residual austenite content in the outer surface of the
3 workpiece is not less than 20% before the shot peening.

1 20. The method as claimed in claim 19, wherein the
2 residual austenite content is not less than 30%.